YAMAHA

NEW PRODUCT BULLETIN

Beyond

Reproducing sound with rich musicality thanks to the ToP-ART high sound quality design concept, these amps inherit a refined, beautiful appearance while providing digital inputs for connecting a TV, plus wireless music streaming compatibility via the YBA-11. Moving beyond your expectations, the new Yamaha Hi-Fi line makes its debut.

Integrated Amplifier

A-S701 / A-S501 / A-S301

Powered by music

YAMAHA

Integrated Amplifier

A-S701

NEW PRODUCT BULLETIN

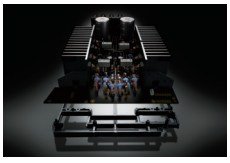
Extremely pure sound quality and outstanding drive power.
An integrated amplifier with the advantage of digital input.

ToP-ART™ CD Direct Amplification AUTO POWER STANDBY

Black finish available in some areas.

High Sound Quality

- ToP-ART (Total Purity Audio Reproduction Technology) and high quality parts
  - I/O (input to output) Direct Symmetrical Design
  - ART (Anti-Resolution and Tough) Base
  - Solid centre bar
  - Custom-made power transformer / 12,000uF block capacitors / Aluminum-extruded heat sinks
- 160W x 2 (max), 100W x 2 (RMS) high power output
- CD Direct Amplification and Pure Direct
- Continuous Variable Loudness Control
- Gold-plated speaker terminals and RCA terminals
- Terminal for detachable AC cable



Extensive System Expandability

- Digital audio inputs for TV or Blu-ray Player
- Connection for YBA-11 *Bluetooth* Wireless Adapter (except China model)
- Subwoofer terminal
- Speaker A, B or A+B selection and speaker terminals for two systems
- Phono MM terminal

Elegant Appearance, Energy-saving Convenience

- Simple yet sophisticated design (aluminium front panel and knobs)
- Rotary encoder input selector with LEDs
- Remote control with clean, simple design
- Auto Power Standby

Terminals	
Input	
Analogue Audio (CD, PHONO, Tuner, LINE 1, LINE 2, LINE 3)	6
Optical Digital	1
Coaxial Digital	1

Output	
Analogue Audio (LINE 2, LINE 3)	2
Speaker*1	2 (4 terminals)
Pre Out (for subwoofer)	1
Headphone Jack	1
DC Out*2 (for optional accessories)	1

*1 Banana-plug compatible speaker terminals are available in some areas.
*2 Except China model

Impressively high sound quality with a wide range of features and an elegant appearance.
An integrated amplifier with the advantage of digital input.

ToP-ART™

AUTO POWER STANDBY

Black finish available in some areas.

High Sound Quality

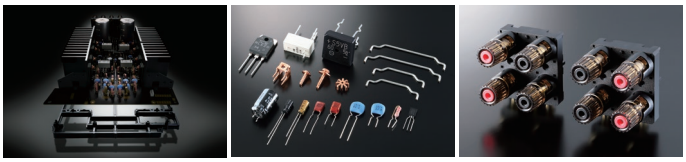
- ToP-ART (Total Purity Audio Reproduction Technology) and high quality parts
  - I/O (input to output) Direct Symmetrical Design
  - ART (Anti-Resolution and Tough) Base
  - Solid centre bar
  - Custom-made power transformer / 12,000uF block capacitors / Aluminum-extruded heat sinks
- 120W x 2 (max), 85W x 2 (RMS) high power output
- Pure Direct Mode for greater sound purity
- Continuous Variable Loudness Control
- Gold-plated speaker terminals and RCA (CD, Phono) and coaxial terminals

Extensive System Expandability

- Digital audio inputs for TV or Blu-ray Player
- Connection for YBA-11 *Bluetooth* Wireless Adapter (except China model)
- Subwoofer terminal
- Speaker A, B or A+B selection and speaker terminals for two systems
- Phono MM terminal

Elegant Appearance, Energy-saving Convenience

- Simple yet sophisticated design (aluminium front panel and knobs)
- Rotary encoder input selector with LEDs
- Remote control with clean, simple design
- Auto Power Standby



Terminals

Input	
Analogue Audio (CD, PHONO, Tuner, LINE 1, LINE 2, LINE 3)	6
Optical Digital	1
Coaxial Digital	1

Output	
Analogue Audio (LINE 2, LINE 3)	2
Speaker*1	2 (4 terminals)
Pre Out (for subwoofer)	1
Headphone Jack	1
DC Out*2 (for optional accessories)	1

*1 Banana-plug compatible speaker terminals are available in some areas.
*2 Except China model

Designed for excellent sound quality, with a beautiful appearance.
An integrated amplifier with the advantage of digital input.

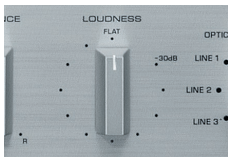
ToP-ART™

AUTO POWER STANDBY

Black finish available in some areas.

High Sound Quality

- ToP-ART (Total Purity Audio Reproduction Technology) and high quality parts
  - I/O (input to output) Direct Symmetrical Design
  - ART (Anti-Resolution and Tough) Base
  - Custom-made power transformer / 6,800uF block capacitors / Aluminium-extruded heat sinks
- 95W x 2 (max), 60W x 2 (RMS) high power output
- Pure Direct Mode for greater sound purity
- Continuous Variable Loudness Control



Extensive System Expandability

- Digital audio inputs for TV or Blu-ray Player
- Connection for YBA-11 *Bluetooth* Wireless Adapter (except China model)
- Subwoofer terminal
- Speaker A, B or A+B selection and speaker terminals for two systems
- Phono MM terminal

Elegant Appearance, Energy-saving Convenience

- Simple yet sophisticated design (aluminium front panel)
- Rotary encoder input selector with LEDs
- Simple and clean design remote controls
- Auto Power Standby

Terminals

Input	
Analogue Audio (CD, PHONO, Tuner, LINE 1, LINE 2, LINE 3)	6
Optical Digital	1
Coaxial Digital	1

Output	
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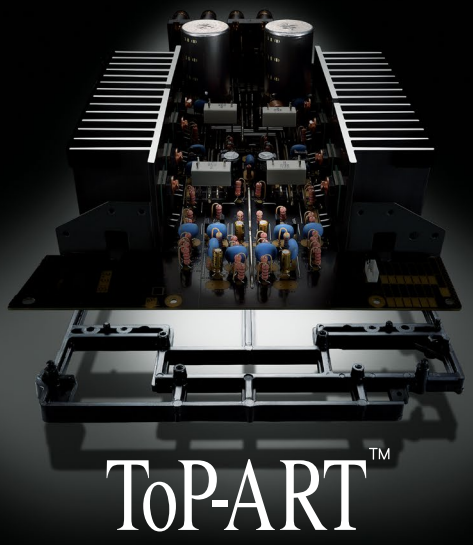
High Quality Sound



High sound quality circuit design based on the ToP-ART (Total Purity Audio Reproduction Technology) concept

ToP-ART Design and ART Base Ensure Optimum Sound When processing and transmission of the audio signal is simple and direct there is less chance of it being affected by noise and distortion. Yamaha's amplifier design technology called ToP-ART features an I/O (input to output) Direct Symmetrical Design, with left and right channels organised in a straight, symmetrical layout for highest signal purity. In addition, the ART (Anti-Resonance and Tough) Base bottom chassis and a solid centre bar provide high-rigidity support and vibration damping. These Yamaha design innovations contribute to these amplifiers' rich audio reproduction with abundant musicality.

High Quality Parts for Outstanding Audio Performance

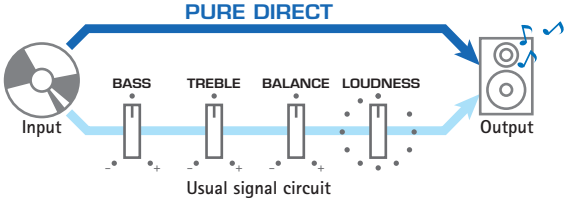
Custom-made power transformer, custom-made block capacitors, two direct signal path speaker relays, one-point grounding system, aluminium-extruded heat sinks and other top-quality parts effortlessly handle demanding audio signal conditions. The quality of each individual part, as well as how they work together, basically determines the sound quality of any component. Yamaha uses only very high quality parts, carefully selected and tested.

Created by Yamaha's Rich Experience and Tradition, and High Technological Expertise

Yamaha, with a long history of over 125 years as a musical instrument maker, also has a high reputation for HiFi components. The A-S701/S501/S301 are created by taking advantage of this rich experience and high technological expertise. Based on the concept of "Natural Sound", for reproducing all music as it really sounds, and built with scrupulous care from circuit design to basic sound production, even though an entry model it reproduces high sound quality and musically rich sound.

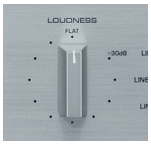
CD Direct Amplification (A-S701) and Pure Direct Mode for Greater Sound Purity

With a straight connection to the CD input, CD Direct Amplification maximises CD source S/N ratio. Additionally, engaging the Pure Direct mode causes the music signals to travel the shortest possible circuit route, bypassing the buffer amp and the tone, loudness and balance controls to virtually eliminate any signal degradation for the purest sound quality.



Usual signal circuit

Continuously Variable Loudness Control



The A-S701/S501/S301 also feature a new analogue loudness control on the front panel that uses electronic volume for higher sound quality, which lets you adjust the loudness effect as desired. Separate from the overall volume, this controls the balance of the low- and high-frequency sounds, providing full tonal range at any volume level, compensating for the natural loss in the human ear of high and low frequencies at soft levels.

Gold-plated Terminals

Gold-plated terminals ensure a high quality connection that prevents signal loss. Both the A-S701 and A-S501 have gold-plated speaker terminals and input terminals*.
* A-S501 CD, Phono and Coaxial input terminals only.

Extensive System Expandability

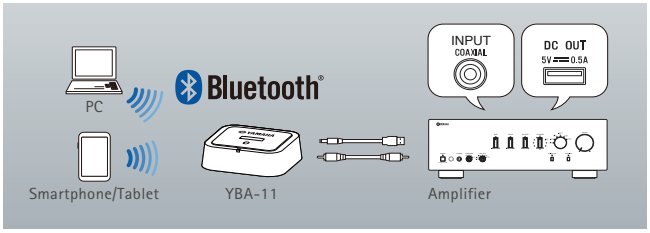
Digital Audio Input for TV and/or Blu-ray Player

The amplifiers are equipped for digital audio input with both optical and coaxial terminals. The optical is for receiving audio from a TV, and the coaxial for receiving audio from a Blu-ray player. The audio stays in the digital domain, giving you pure, pristine dynamic sound for all your entertainment sources, from sports and other programs to movies and concerts.

Connection* for YBA-11 *Bluetooth* Wireless Adapter

With the YBA-11, you'll be able to stream music wirelessly from a *Bluetooth* capable mobile phone or a PC to the Network receiver. Thanks to the digital connection and aptX® audio coding algorithm, you'll enjoy wireless music streaming with optimum sound quality. You can also conveniently power the YBA-11 via the DC-out connection on the rear panel of the amplifier.

* Except China model



Speaker A, B or A+B Selection and Speaker Terminals for Two Systems

You can connect two separate speaker systems in different rooms and switch between them, or have them both playing at the same time. There are four terminals, so by just pushing a button, you can switch speakers to match the sound source.

Subwoofer Terminal

A terminal for connecting a subwoofer is provided, allowing you to increase the bass output of your system for a more powerful sound with better overall sound quality.

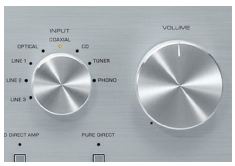
Phono MM Terminal

You can connect a turntable with an MM phono cartridge to play vinyl records. This lets you enjoy not only CDs, but also analog record sound from an amp with the latest digital/analogue technology.

Elegant Appearance, Energy-saving Convenience

Simple yet Sophisticated Design

With a beautifully simple and unique design inherited directly from Yamaha's HiFi audio components, these amplifiers also boast an easy-to-operate button layout. The aluminium front panel has a richly textured silver hairline finish. The control knobs are also of the same luxurious construction as used on our top-end models.



Remote Control with Clean, Simple Design

The clean, simple design of the remote control provides easy-to-understand one-hand operation. The easy-to-use design makes it simple to adjust song volume and order. The unit has a sophisticated looking hairline finish that matches the design of the amplifiers. You can also use the remote to control a Yamaha CD player.

Rotary Encoder Input Selector with LEDs

The rotary encoder makes it quick and easy to select input sources. The luxury hairline finish material offers a nice tactile feeling. LEDs clearly show which source is selected, so you can easily switch sources even in a dark room.

Auto Power Standby Function

The amplifier has a power management function that detects when it hasn't been used for a long time (about 8 hours) even though the power is on, and automatically shifts it into standby mode. So even if you forget to turn it off, power consumption will be minimised.

A-S701/A-S501/A-S301

NEW PRODUCT BULLETIN

Specifications

A-S701

A-S501

A-S301

AUDIO SECTION					
Maximum Power	(4 ohms, 1 kHz, 0.7 % THD, for Europe)		160 W + 160 W	120 W + 120 W	95 W + 95 W
Minimum RMS Output Power	(8 ohms, 20 Hz–20 kHz)		100 W + 100 W (0.019% THD)	85 W + 85 W (0.019% THD)	60 W + 60 W (0.019% THD)
Dynamic Power per Channel	(8/6/4/2 ohms)		140/170/220/290 W	130/150/185/220 W	100/120/140/150 W
Damping Factor	(8 ohms, 1 kHz)		240	240	210
Input Sensitivity/Impedance	Phono (MM)		3.0 mV/47 k-ohms	3.0 mV/47 k-ohms	3.0 mV/47 k-ohms
	CD etc		200 mV/47 k-ohms	200 mV/47 k-ohms	200 mV/47 k-ohms
Output Level/Impedance	CD etc, 1kHz, 200 mV	Rec Out	200 mV/1 k-ohms	200 mV/1 k-ohms	200 mV/1 k-ohms
	8-ohms Load	Headphone Jack	470 mV/470 ohms	430 mV/470 ohms	360 mV/470 ohms
Frequency Response	CD etc		20 Hz-20 kHz, 0±0.5 dB	20 Hz-20 kHz, 0±0.5 dB	20 Hz-20 kHz, 0±0.5 dB
	CD etc, Pure Direct On		10 Hz-100 kHz, 0±1.0 dB	10 Hz-100 kHz, 0±1.0 dB	10 Hz-100 kHz, 0±1.0 dB
Channel Separation (1 kHz/10 kHz)	CD, etc., Input 5.1 k-ohms Shorted		65 dB/50 dB	65 dB/50 dB	65 dB/50 dB
Total Harmonic Distortion	Phono (MM) (20 Hz–20 kHz)	Rec Out	0.03% (2.5 V)	0.03% (2.5 V)	0.03% (2.5 V)
	CD etc (20 Hz–20 kHz)	Sp Out	0.019% (50 W/8 ohms)	0.019% (45 W/8 ohms)	0.019% (30 W/8 ohms)
Signal-to-Noise Ratio (IHF-A Network)	Phono (MM) (Input Shorted, 5 mV)		82 dB	82 dB	82 dB
	CD etc [Pure Direct On, Input Shorted, 200 mV]		99 dB	99 dB	99 dB
	CD (CD Direct On)		104 dB	–	–
Residual Noise (IHF- A Network)			40 µV	40 µV	40 µV
Continuous Loudness Control Characteristics Attenuation (1 kHz)			-30 dB	-30 dB	-30 dB
Gain Tracking Error (0 – 99 dB)			0.5 dB	0.5 dB	0.5 dB
Audio In / Out			8 / 5	8 / 5	8 / 5
Subwoofer Out			Yes	Yes	Yes
Support Audio Sample Rate	Digtal in (Coaxial/Optical)		192/176.4/96/88.2/48/44.1/32kHz	192/176.4/96/88.2/48/44.1/32kHz	192/176.4/96/88.2/48/44.1/32kHz
PCM Word Depths	Digtal in (Coaxial/Optical)		24/16 bit	24/16 bit	24/16 bit
GENERAL SECTION					
Standby Power Consumption			0.5 W	0.5 W	0.5 W
Dimensions	(W x H x D)		435 x 151 x 387 mm; 17-1/8" x 6" x 15-1/4"	435 x 151 x 387 mm; 17-1/8" x 6" x 15-1/4"	435 x 151 x 387 mm; 17-1/8" x 6" x 15-1/4"
Weight			11.2 kg; 24.7 lbs.	10.3 kg; 22.7 lbs.	9.0 kg; 19.8 lbs.

Feature Comparison

Integrated Amplifier	A-S701	A-S501	A-S301
Dual aluminium-extruded heat sinks	●	●	●
ART (Anti-Resonance and Tough) Base	●	●	●
Gold-plated input terminals	●	●	–
Terminal for detachable AC cable	●	–	–
CD Direct/Pure Direct	●/●	–/●	–/●
DC Out for optional accessories	●	●	●
Power Management (Auto Power Standby)	●(8 hour)	●(8 hour)	●(8 hour)